

Please enter new claims 13 to 16 for examination together with claims 1 to 8, as follows.

- 1 13. Arrangement of a heating layer (8) according to claim 1,  
2 characterized in that additionally at least one measuring  
3 conductor path (12) for determining the temperature is  
4 applied, and the measuring conductor path (12) is in  
5 contact with the heating conductor path (6).

- 1 14. Arrangement of a heating layer (8) according to claim 13,  
2 whereby the high-temperature gas sensor comprises a  
3 functional layer (4) with the length (L), characterized in  
4 that at least one contact is applied between measuring  
5 conductor path (12) and heating conductor path (6) in the  
6 region of the length (L) below the functional layer (4).

- 1 15. Arrangement of a heating layer (8) according to claim 14,  
2 characterized in that more than two contact possibilities  
3 (13) are formed between measuring conductor path (12) and  
4 heating conductor path (6), in order to select between  
5 various different resistance values of the heating  
6 conductor path (6).

- 1 16. Arrangement according to claim 14, characterized in that  
2 the length (L) of the functional layer (4) is smaller than  
3 the spacing distance (L + G) between supply line part and  
4 sensor tip, in which the heating conductor path (6) is  
5 arranged.